The Trusted Provider in Classroom Audio Technology

Strengthening the Connection

REDCAT™ NEW

Money-saving, no installation, all-in-one audio system

SEE PAGE 6

REDMIKE™ NEW

Small, lightweight, easy-to-use microphone

SEE PAGE 5

Children Who Hear Every Word Learn More

Many studies and thousands of working classrooms nationwide have proven that simple, easy-to-use classroom audio effectively increases student achievement and classroom management. Every educator wants children to listen and learn faster. Now those children can – without changes in curriculum or teaching style.

Lightspeed classroom audio creates an environment where each child has an equal opportunity to hear the teacher's instruction. By simply hearing what's being taught, every child enjoys a higher level of achievement.

Classroom Audio Benefits

- Increases student interaction and participation
- Enhances the learning environment
- Improves classroom management
- Reduces teacher vocal fatigue and absenteeism
- Clear sound for all audio sources

REDCAT™ NEW

Money-saving, no installation, all-in-one audio system

REDMIKE™ NEW

Small, lightweight, easy-to-use microphone

Revolutionary REDCAT: No Installation, Easy-to-Use and Affordable

Traditional classroom audio requires cost-consuming commitments for planning and executing system installations. REDCAT's unique all-in-one design requires no installation, meaning easy adoption and immediate results. The REDCAT and REDMIKE combination delivers clear audio, excellent sound distribution and high speech intelligibility. It's quick and affordable. **REDCAT and REDMIKE make everyone's life easier**.

No Installation

We spend countless hours on technology installs or managing a subcontractor. With REDCAT and REDMIKE, we just plug and play and are up in no time.

Better Learning Environment

REDCAT requires less time and resources than any other technology to implement. Almost immediately, teachers are using it, and kids are excited to participate.

Easy Technology Integration

REDCAT just works. We can use it with any classroom technology — quickly and easily. Best of all, it requires little or no support from us.

More Technology for Less

Eliminating installation costs means every dollar goes to systems that help teachers and students directly. Now, more students are hearing better and learning better.

REDCAT™ & REDMIKE™

This money-saving, no installation, all-in-one audio system allows schools to put more audio in more classrooms.

In today's environment of tight budgets, education professionals must save on time and dollars wherever possible.

REDCAT's sound is revolutionary: a wireless infrared system, superior to conventional FM. The advanced NXT™ speaker technology fills a room with clear sound.

The all-in-one **REDCAT** is a true "plug and play" unit allowing schools to bypass complex, costly installation associated with traditional audio systems.

No installation means no time-consuming logistics meetings, and cuts out installation hours altogether. **REDCAT** reduces time commitments school-wide.

We have decided to use Lightspeed in all the schools… the REDCAT proved to be a great option for the schools and the State Department staff is very pleased about the project.

– **B. Hunter**, Superintendent, Alabama

REDMIKE™ Specifications

Size (H x W x D)	3.5" x 0.9" x 1.0"
Weight	2.1 oz
Battery Power	One (1) AA NiMH
Alkaline Charge Protection	Yes
Charging Method	Cradle charger
Input	3.5 mm Audio input

Microphone Benefits

- Lightweight and easy-to-use
- Designed for teacher comfort
- Virtually unbreakable
- 5-year warranty

Add a Second REDMIKE

Additional microphones allow students to utilize the classroom audio system for presentation and discussions.

Words cannot express my satisfaction with the REDCAT sound system. It not only impacted a hearing impaired student, but all of my first graders became more attentive listeners and learners as a result of this product. By having a microphone for student use, I saw confidence grow in my students' willingness to speak up during Headline News and group discussions.

– D. Hippensteel
First Grade Teacher, Missouri

At the present time we have a specific school…that is using amplification in almost every classroom. The REDCAT offered something that other companies haven't been able to — an all-in-one system — with only one speaker that fills the room with equal sound. It is a high quality product and makes great fiscal sense! From the beginning (the) equipment far exceeded my expectations.

– S. Dornback
RISD Audiologist, Texas

REDCAT™ Specifications

Standard Carrier Frequencies	2.06/2.54 MHz
Power Output	20 W
Total Harmonic Distortion (THD)	<1%, 1 kHz
Signal-to-Noise Ratio	> 77 dB
Acoustic Frequency Response	120 Hz - 13 kHz
Audio Inputs (with volume control)	Two (2) Inputs (Stereo RCA; 3.5 mm)
Audio Outputs (with volume control)	One (1) 3.5 mm
Size (H x W x D)	14" x 22.25" x 3"
Table Stand Footprint (W x D)	18.9" x 7"
NXT™ Distributed Mode Panel*	
CE Certified	

** New Transducers Limited*

Sound System Benefits

- **Higher student achievement:** Students hear every word
- **Increased productivity:** Improved classroom management
- **Cost savings of >30%:** No installation, high-value
- **Effortless for the teacher:** Easy-to-use
- **Audio hub:** Simply integrates with classroom technology
- **Advanced NXT™ Technology:** Convenient, room-filling sound
- **Reliable:** 5-year warranty

Environmentally Friendly

Highly efficient design

WEEE Compliant

Lead-free construction

The Flexible 800 Series

Classroom Audio Technology to Meet Classroom or Media Center Needs

Lightspeed's popular 800 Series of audio systems offers a wide range of solutions for educators. This product line is flexible enough to meet virtually any classroom environment, with a variety of installed products and multiple speaker options.

The 800 Series Features:

- Infrared wireless technology
- Multiple audio inputs for integration
- A variety of speaker options
- Option to add microphones
- Audio outputs for assistive listening and recording
- 8-band equalizer
- 5-year warranty

Standard Components Include*

Receiver/Amplifier

REDMIKE & Cradle Charger

Sensor

Speaker Options

* *Plenum rated sensor cable and speaker wire included*

A Consultative Approach

Our priority is to understand the needs and goals of educators. Lightspeed's classroom audio consultants are available to help identify the right product that meets the needs of your school.

820iR

Professional Quality Classroom Audio

The 820iR delivers the essential features necessary to amplify a standard classroom environment. This solution, available in a compact, affordable package, has a variety of speaker options that ensure professional sound quality reaches every student.

< REAR VIEW

Specifications

Standard Carrier Frequencies (IR)	2.06/2.54 MHz
Power Output	12 W/Channel (24 W Total)
Total Harmonic Distortion (THD)	<1% @ 10 W
Signal-to-Noise Ratio	>73 dB
Amplifier Frequency Response	40 Hz - 20 kHz
Audio Inputs (with volume controls)	Two (2) Stereo RCA
ALD Output (with volume control)	One (1) 3.5 mm
Dimensions (W x D x H)	9.5" x 8.5" x 1.75"

Features

- REDMIKE — small, lightweight, easy-to-use microphone
- Speaker choices to fit any classroom
- 2 stereo audio inputs with volume control
- 8-band graphic equalizer
- Audio output for assistive listening and recording

Add a Second Microphone

Extra microphones allow students to utilize the classroom audio system for presentations and discussions.

REDMIKE *LT71* *HM70*

850iR

Teacher-friendly Design

The 850iR is designed to work in concert with existing multimedia sources while maintaining straightforward, easy operation for the teacher. The back panel features a variety of inputs, outputs and fine-tuning controls for easy integration.

< REAR VIEW

Specifications

Standard Carrier Frequencies (IR)	2.06/2.54 MHz
Power Output	12 W/Channel (48 W Total)
Total Harmonic Distortion (THD)	<1% @ 10 W
Signal-to-Noise Ratio	>73 dB
Amplifier Frequency Response	40 Hz - 20 kHz
Audio Inputs (with volume controls)	Three (3) Inputs (Stereo RCA x 2; Stereo 3.5 mm x 1)
ALD Output (with volume control)	Two (2) 3.5 mm
Dimensions (W x D x H)	17.3” x 8.5” x 1.75”

Features

- REDMIKE — small, lightweight, easy-to-use microphone
- 3 stereo audio inputs with volume control
- PageFirst technology — emergency page priority (optional add-on)
- Speaker choices to fit any classroom
- 2 audio outputs for assistive listening and recording

PageFirst™ Technology

In the event of any page or important message, PageFirst technology mutes the classroom audio system so all students can hear the announcement.

880iR

Multimedia Integration

The 880iR is designed with advanced features that adapt to today’s changing classroom environment, and allow for future multimedia expansion. Projectors, electronic whiteboards and computers all require a robust solution that will deliver clear, full sound reproduction and in addition to the best speech intelligibility for teachers and students. Distributing the audio to every child, regardless of where they are seated, improves the dynamic of interactive classrooms.

< REAR VIEW

Specifications

Standard Carrier Frequencies (IR)	2.06/2.54 MHz
Power Output	12 W/Channel (72 W Total)
Total Harmonic Distortion (THD)	<1% @ 10 W
Signal-to-Noise Ratio	>73 dB
Amplifier Frequency Response	40 Hz - 20 kHz
Audio Inputs (with volume controls)	Four (4) Inputs (Stereo RCA x 3; Stereo 3.5 mm x 1)
ALD Output (with volume control)	Two (2) 3.5 mm
Dimensions (W x D x H)	17.3” x 8.5” x 1.75”

Features

- REDMIKE — small, lightweight, easy-to-use microphone
- 4 stereo audio inputs with volume control
- PageFirst technology — emergency page priority (optional add-on)
- Teacher Voice Priority
- Speaker choices to fit any classroom
- Individual speaker on/off switches and volume for zoning
- 2 audio outputs for assistive listening and recording

Advanced Features

Teacher Voice Priority –
Teacher microphone overrides all audio sources

PageFirst™ Technology –
Class never misses PA announcements

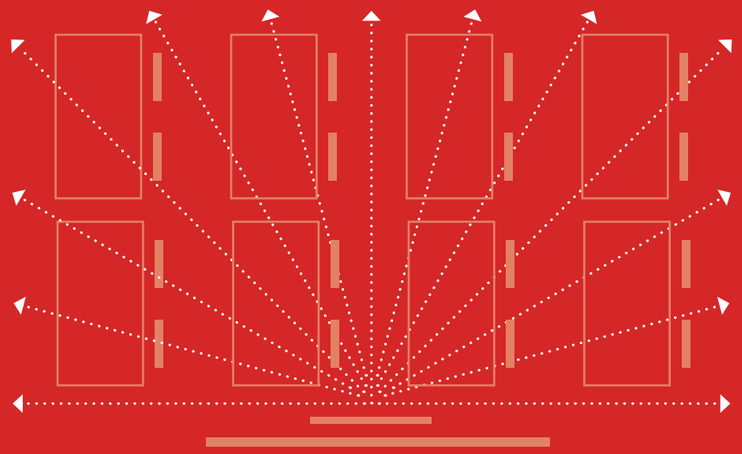
True Classroom Speaker Innovation

NXT™ speaker technology, which is revolutionizing the audio industry, has proven to be the perfect solution for today's classrooms. In partnership with NXT, Lightspeed has developed classroom audio systems that deliver an unparalleled sound experience for teachers and their students.

A single NXT flat panel speaker delivers:

- **High speech intelligibility:** Enhances the voice frequencies for clear communication and better understanding
- **Excellent sound distribution:** Every student hears the instruction clearly
- **Cost savings:** Minimizes or eliminates installation expense to free budget for more technology

NXT™ technology utilizes the entire flat panel surface to emit audio in all directions, creating excellent sound distribution from a single speaker.



NXT™ Products

REDCAT

NXQ

CNXQ

To learn more about how Lightspeed's flexible sound solutions can accommodate your specific needs, contact us today at 800.732.8999, or through our website at www.lightspeed-tek.com.

Single Speaker Solutions

Lightspeed's flat panel speakers produce a very wide dispersion of sound, resulting in excellent distribution throughout the entire classroom from a single speaker. Installation is very simple and speech intelligibility is superb.

CNXQ Flat Panel Ceiling Speaker

Designed for classrooms with suspended ceilings between 9 and 12 feet, these low-profile speakers provide excellent speech intelligibility and distribute sound evenly throughout the classroom.

Specifications
- Description: NXT™ Distributed Mode Panel*
- Panel Size: 22.25" x 22.25"
- Frequency Response: 60 Hz - 20 kHz
- Impedance: 4 Ohms
- Power Handling: 15 W
- Dimensions: 24" x 24" x 1.5"
- Weight: 4.5 lbs

NXQ Flat Panel Wall Speaker

Built for classrooms where ceiling speakers are not practical, the NXQ is wall-mounted and provides optimum speech intelligibility. This speaker is ideally suited for classrooms with ceilings higher then 9 feet.

Specifications
- Description: NXT™ Distributed Mode Panel*
- Panel Size: 16.25" x 8.25"
- Frequency Response: 100 Hz - 20 kHz
- Impedance: 8 Ohms
- Overall Dimensions: 18.25" x 10.25" x 1.5"
- Weight: 2.2 lbs
- Mounted on standard picture hanger

** New Transducers Limited*

Traditional Speaker Solutions

For larger or multimedia classroom applications, we offer a line of traditional speakers, which places multiple speakers around the classroom. These speaker solutions cover classrooms up to 1600 square feet and will deliver a full range of sound.

DRQ Ceiling Speaker

Low-profile speakers designed for rooms with suspended ceilings and deliver high quality, full-range sound. Four speakers will distribute sound evenly throughout classrooms with room heights between 9 and 12 feet.

Specifications
- Description: Two-way speaker system
- Driver Size: 6.5" driver; 1" horn
- Frequency Response: 40 Hz - 20 kHz
- Impedance: 8 Ohms
- Power Handling: 30 W
- Dimensions: 9.5" diameter; 5.5" deep
- Weight: 5.9 lbs

WMQ Wall Speaker

Four WMQ speakers provide high quality distributed sound for classrooms with solid ceilings as low as 8 feet.

Specifications
- Description: Mini 2-way / Capacitive Crossover
- Driver Size: 3" Acoustic Suspension Driver
- Frequency Response: 110 Hz - 20 kHz
- Impedance: 8 Ohms
- Power Handling: 30 W
- Dimensions: 6.35" x 3.8" x 4.13"
- Weight: 1.5 lbs

Classroom Audio Solutions For Any Need

Because Lightspeed Technologies is dedicated to helping educators provide better learning environments, we offer a range of solutions to meet your specific teaching needs. These include:

Team Teaching: Lightspeed audio systems easily handle two microphones for effective team teaching

Student Microphones: An optional hand held microphone increases student participation

Audio Recording: send audio directly to a computer or digital recorder for lesson capture and re-broadcast on class websites

Wireless Audio Transmission: Allows teachers to share music and other digital content from an MP3 player or laptop by simply plugging it into the REDMIKE

Assistive Listening Device Interface: Connect an ALD transmitter to the audio system for simultaneous broadcast through the classroom audio system and the student's ALD receiver, using only the REDMIKE

Audio Integration: Interface seamlessly with computers, music players, recorders, DVD players and other audio devices

Compatibility: Build the best classroom technology package with Lightspeed as the core component

Additional Products

705iR Portable Infrared Audio System

Designed for smaller classrooms, the 705iR puts infrared audio into a compact portable package. The system is lightweight and sets up in seconds, delivering clear sound to every student.

Features
- Compact, all-in-one design
- Quick set-up – no installation
- Battery or AC powered
- Carry case
- REDMIKE – small, lightweight, easy-to-use microphone

800iX Infrared Wireless Microphone System

The 800ix receiver features two wireless infrared channels to integrate with existing amplifiers in the classroom. With its alternate frequency group, it can also be added to our popular 850iR or 880iR systems to create a four-channel system.

Features
- Two-channel infrared receiver
- Alternate frequency group available – 4 compatible channels
- Independent microphone channel outputs
- Rack-mountable receiver
- REDMIKE – small, lightweight, easy-to-use microphone

FP 100 Compact IR Wireless Microphone System

The FP 100 will seamlessly integrate into a sophisticated A/V control system. With its small footprint, the receiver can mount in any discrete location such as an A/V cabinet or below-ceiling tray.

Features
- Two-channel infrared receiver
- Compact receiver allows for mounting anywhere
- Balanced microphone outputs (individual and mixed)
- REDMIKE – small, lightweight, easy-to-use microphone

Optional Infrared Accessories

Amplifier Wall Shelf

PageFirst Sensor

Patch Cables

Campus Coordinator Kit

Delta X6 UHF Portable PA System

The highly durable Delta X6 is designed for larger areas and portable applications like gymnasiums, cafeterias and outdoor event areas. Its battery operation and handy carrying case makes it easy to transport around the school.

Features
- 6.5" full-range speaker
- Lightweight and durable injection molded construction
- Up to two UHF wireless microphones
- 100 UHF channels ensure use anywhere
- Rechargeable battery provides up to 10 hours of operation

Lightspeed Advantages

- *High Value and Low Cost of Ownership*
- *Easy-to-use Products Designed for Teachers*
- *Latest Technology Innovations*
- *Focus on Easy Classroom Integration*
- *Highly Responsive Service and Support*
- *A Passionate Commitment to Education*

lightspeed™

Established in 1990, Lightspeed Technologies is the trusted provider in classroom audio technology. Our passion is to improve the listening and learning environment for every child. We believe strengthening the connection between teachers and students is at the heart of learning

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